

1.1 GENERAL FLOW OF OPERATION OF CNC MACHINE TOOL

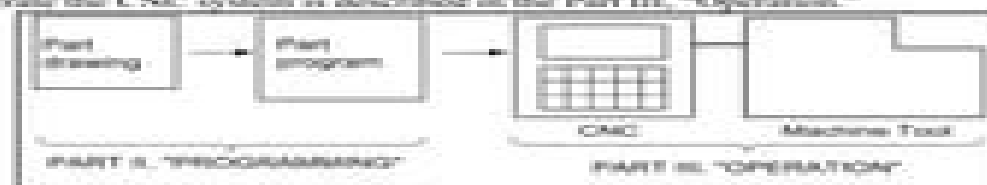
When machining the part using the CNC machine tool, first prepare the program, then operate the CNC machine by using the program.

(1) First, prepare the program from a part drawing to operate the CNC machine tool.

How to prepare the program is described in the Part II, "Programming."

(2) The program is to be read into the CNC system. Then, mount the workpieces and tools on the machine, and operate the tools according to the programming. Finally, execute the machining actually.

How to operate the CNC system is described in the Part III, "Operation."



Before the actual programming, make the machining plan for how to machine the part.

Machining plan:

1. Determination of workpieces machining range
2. Method of mounting workpieces on the machine tool
3. Machining sequence in every cutting process
4. Cutting tools and cutting conditions

Decide the cutting method in every cutting process.

Cutting procedure	Cutting process	1	2	3
		End face cutting	Outer diameter cutting	Grooving
1. Cutting method : Rough Semi Finish				
2. Cutting tools				
3. Cutting conditions : Feedrate Cutting depth				
4. Tool path				

Cnc Manual 64304en

Bryan Hurst



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CNC Manual - CNC 112, 2024-06 **Training Module for Using CNC Machines**, 2002 **Numerical Control Programming** George C. Stanton, 1989-05-01 **The Journeyman's Guide to Cnc Machines** Bryan Hurst, 2006-06-01 The Guide provides instruction in ISO code programming for Turning included are examples that will give an understanding of the principles to apply to any machine and control also featured are GE Fanuc and Siemens Controls The Guide lists functions and codes under the reference JG and provides space to include data for specific machines and controls Extensive examples show how to programme the options and features Component drawings have metric and imperial dimensions simply substitute the dimensions with those of the system of your choice The Guide is your starting point use the instructions and suggestions to build your own unique evolvable folder from here creating an invaluable personal handbook

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Bridgeport Series I CNC Milling Machine; Programming Manual Adcock-Shipley Textron, 1979* **CNC Programming using Fanuc Custom Macro B** S. K Sinha, 2010-06-22 Master CNC macro programming CNC Programming Using Fanuc Custom Macro B shows you how to implement powerful advanced CNC macro programming techniques that result in unparalleled accuracy flexible automation and enhanced productivity Step by step instructions begin with basic principles and gradually proceed in complexity Specific descriptions and programming examples follow Fanuc s Custom Macro B language with reference to Fanuc 0i series controls By the end of the book you will be able to develop highly efficient programs that exploit the full potential of CNC machines **COVERAGE INCLUDES** Variables and expressions Types of variables local global macro and system variables Macro functions including trigonometric rounding logical and conversion functions Branches and loops Subprograms Macro call Complex motion generation Parametric programming Custom canned cycles Probing Communication with external devices Programmable data entry **Operating Manual for Jones and Lamson CNC "A" Line Machine**, 1983 Machining and Cnc Technology, Activities Manual McGraw-Hill, 2003-07-01

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